



Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION DETERMINATION DOCUMENT

COMMUNITY AND REVISION INFORMATION		PROJECT DESCRIPTION	BASIS OF REQUEST
COMMUNITY	Fort Bend County Texas (Unincorporated Areas)	DETENTION BASIN FILL	HYDRAULIC ANALYSIS HYDROLOGIC ANALYSIS NEW TOPOGRAPHIC DATA
	COMMUNITY NO.: 480228		
IDENTIFIER	LID 15 Internal System - Snake Slough	APPROXIMATE LATITUDE AND LONGITUDE: 29.543, -95.595 SOURCE: Precision Mapping Streets DATUM: NAD 83	
ANNOTATED MAPPING ENCLOSURES		ANNOTATED STUDY ENCLOSURES	
TYPE: FIRM* NO.: 48157C0265 J DATE: January 3, 1997		DATE OF EFFECTIVE FLOOD INSURANCE STUDY: November 7, 2001 PROFILES: 48P, 49P, AND REMOVED 49P(A) SUMMARY OF DISCHARGES TABLE: 2 SUMMARY OF STILLWATER ELEVATIONS TABLE: 5	

Enclosures reflect changes to flooding sources affected by this revision.

* FIRM - Flood Insurance Rate Map

FLOODING SOURCES AND REVISED REACHES

See Page 2 for Additional Flooding Sources

Snake Slough - from a point approximately 420 feet downstream of Hagerson Road to a point approximately 1,610 feet upstream of Hagerson Road and from the confluence with SS Lake 1 to just downstream of Oilfield Road

Alcorn Bayou - from a point approximately 8,870 feet downstream of University Boulevard to a point approximately 5,390 feet upstream of University Boulevard

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Snake Slough	Zone AE	Zone AE	YES	YES
	Zone AE	Zone X (shaded)	YES	NONE
	BFEs*	BFEs	YES	YES
Alcorn Bayou	Zone AE	Zone AE	YES	YES

* BFEs - Base Flood Elevations

DETERMINATION

This document provides the determination from the Department of Homeland Security's Federal Emergency Management Agency (FEMA) regarding a request for a Letter of Map Revision (LOMR) for the area described above. Using the information submitted, we have determined that a revision to the flood hazards depicted in the Flood Insurance Study (FIS) report and/or National Flood Insurance Program (NFIP) map is warranted. This document revises the effective NFIP map, as indicated in the attached documentation. Please use the enclosed annotated map panels revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals in your community.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our Web site at <http://www.fema.gov/business/nfip>.

Stuart W. Rooney, CFM, PMP, Program Specialist
Engineering Management Branch
Federal Insurance and Mitigation Administration



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LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

OTHER FLOODING SOURCES AFFECTED BY THIS REVISION

FLOODING SOURCES AND REVISED REACHES

Alcorn Bayou - from a point approximately 8,870 feet downstream of University Boulevard to a point approximately 5,390 feet upstream of University Boulevard

SS Lake 1 - Approximately 1,450 feet northwest of the intersection of Manor Drive and Meadow Road

AB Lake A1 - Approximately 1,600 feet southwest corner of the intersection of Maranatha Drive and Cabrera Drive

AB Lake A2 - Approximately 970 feet southwest of the intersection of Maranatha Drive and Cabrera Drive

SUMMARY OF REVISIONS

Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases
Alcorn Bayou	BFEs*	BFEs	YES	YES
SS Lake 1	Zone X (shaded)	Zone AE	YES	NONE
	Zone AE	Zone AE	YES	YES
	No BFEs	BFEs	YES	NONE
AB Lake A1	Zone X (shaded)	Zone AE	YES	NONE
	No BFEs	BFEs	YES	NONE
AB Lake A2	Zone X (shaded)	Zone AE	YES	NONE
	No BFEs	BFEs	YES	NONE

* BFEs - Base Flood Elevations

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**LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)**

OTHER COMMUNITIES AFFECTED BY THIS REVISION

CID Number: 480234 **Name:** City of Sugar Land, Texas

AFFECTED MAP PANELS

TYPE: FIRM* NO.: 48157C0265 J DATE: January 3, 1997

AFFECTED PORTIONS OF THE FLOOD INSURANCE STUDY REPORT

DATE OF EFFECTIVE FLOOD INSURANCE STUDY: November 7, 2001
PROFILE: 48P
SUMMARY OF DISCHARGES TABLE: 2
SUMMARY OF STILLWATER ELEVATIONS TABLE: 5

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our Web site at <http://www.fema.gov/business/nfip>.

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LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

COMMUNITY INFORMATION

APPLICABLE NFIP REGULATIONS/COMMUNITY OBLIGATION

We have made this determination pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (P.L. 93-234) and in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, P.L. 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, communities participating in the NFIP are required to adopt and enforce floodplain management regulations that meet or exceed NFIP criteria. These criteria, including adoption of the FIS report and FIRM, and the modifications made by this LOMR, are the minimum requirements for continued NFIP participation and do not supersede more stringent State/Commonwealth or local requirements to which the regulations apply.

COMMUNITY REMINDERS

We based this determination on the 1-percent-annual-chance discharges computed in the submitted hydrologic model. Future development of projects upstream could cause increased discharges, which could cause increased flood hazards. A comprehensive restudy of your community's flood hazards would consider the cumulative effects of development on discharges and could, therefore, indicate that greater flood hazards exist in this area.

Your community must regulate all proposed floodplain development and ensure that any permits required by Federal or State/Commonwealth law have been obtained. State/Commonwealth or community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction or may limit development in floodplain areas. If your State/Commonwealth or community has adopted more restrictive or comprehensive floodplain management criteria, those criteria take precedence over the minimum NFIP requirements.

We will not print and distribute this LOMR to primary users, such as local insurance agents or mortgage lenders; instead, the community will serve as a repository for the new data. We encourage you to disseminate the information in this LOMR by preparing a news release for publication in your community's newspaper that describes the revision and explains how your community will provide the data and help interpret the NFIP maps. In that way, interested persons, such as property owners, insurance agents, and mortgage lenders, can benefit from the information.

This revision has met our criteria for removing an area from the 1-percent-annual-chance floodplain to reflect the placement of fill. However, we encourage you to require that the lowest adjacent grade and lowest floor (including basement) of any structure placed within the subject area be elevated to or above the Base (1-percent-annual-chance) Flood Elevation.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our Web site at <http://www.fema.gov/business/nfip>.

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**LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)**

We have designated a Consultation Coordination Officer (CCO) to assist your community. The CCO will be the primary liaison between your community and FEMA. For information regarding your CCO, please contact:

Mr. Frank Pagano
Director, Mitigation Division
Federal Emergency Management Agency, Region VI
Federal Regional Center, Room 206
800 North Loop 288
Denton, TX 76209
(940) 898-5127

STATUS OF THE COMMUNITY NFIP MAPS

We are processing a revised FIRM and FIS report for Fort Bend County in our countywide format; therefore, we will not physically revise and republish the FIRM and FIS report for your community to incorporate the modifications made by this LOMR at this time. Preliminary copies of the countywide FIRM and FIS report, which present information from the effective FIRMs and FIS reports for your community and other incorporated communities in Fort Bend County, were submitted to your community for review on October 30, 2009. We will incorporate the modifications made by this LOMR into the countywide FIRM and FIS report before they become effective.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our Web site at <http://www.fema.gov/business/nfip>.

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**LETTER OF MAP REVISION
DETERMINATION DOCUMENT (CONTINUED)**

PUBLIC NOTIFICATION OF REVISION

A notice of changes will be published in the *Federal Register*. This information also will be published in your local newspaper on or about the dates listed below and through FEMA's Flood Hazard Mapping Web site at https://www.floodmaps.fema.gov/fhm/Scripts/bfe_main.asp.

LOCAL NEWSPAPER Name: *The India Herald*
Dates: 01/30/2013 and 02/06/2013

Within 90 days of the second publication in the local newspaper, a citizen may request that we reconsider this determination. Any request for reconsideration must be based on scientific or technical data. Therefore, this letter will be effective only after the 90-day appeal period has elapsed and we have resolved any appeals that we receive during this appeal period. Until this LOMR is effective, the revised flood hazard determination information presented in this LOMR may be changed.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange (FMIX) toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our Web site at <http://www.fema.gov/business/nfip>.

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Table 2 Summary of Discharges-continued

FLOODING SOURCE AND LOCATION	DRAINAGE AREA (Square Miles)	PEAK DISCHARGES (cfs)			
		10-YEAR	50-YEAR	100-YEAR	500-YEAR
ALCORN BAYOU					
Approximately 0.47 mile upstream of confluence with Brazos River	1.20	*	*	1,196	*
BRAZOS RIVER					
Approximately 5.6 miles upstream of Atchison, Topeka, and Santa Fe Railway	21,380 ¹	101,000	157,000	181,000	242,000
BULLHEAD BAYOU					
Approximately 1.30 miles upstream of confluence with Ditch H	5.08	*	*	1,766	*
Approximately 1.43 miles upstream of confluence with Ditch H	4.35	*	*	1,632	*
CLEAR CREEK					
Approximately 0.42 mile downstream of State Route 288	6.17	645	891	1,049	1,230
At FM 2234	5.27	540	825	969	1,160
Approximately 0.62 mile upstream of FM 2234	2.82	438	767	951	1,160
CLODINE DITCH					
At FM 1093	9.62	797	1,157	1,287	1,650
At Harlem Road	7.33	594	855	962	
Approximately 1.35 miles upstream of Harlem Road	5.25	401	577	683	890
COON CREEK					
At Band Road	14.85	1,250	*	2,400	3,750
Approximately 0.28 mile upstream of the Southern Pacific Railroad	11.70	1,100	*	2,000	3,150
Approximately 0.29 mile upstream of Cottonwood Road	10.00	1,000	*	1,700	2,450
COW CREEK					
Approximately 0.47 mile upstream of its confluence with the Brazos River	61.00	3,600	5,900	6,900	9,100

¹Area below Possum Kingdom Reservoir; area above reservoir determined non-contributory to 100-year flood

*Data not computed

Table 2 Summary of Discharges-continued

FLOODING SOURCE AND LOCATION	DRAINAGE AREA (Square Miles)	PEAK DISCHARGES (cfs)			
		10-YEAR	50-YEAR	100-YEAR	500-YEAR

Snake Slough Approximately 600 feet downstream of Hagerson Road	0.41	*	*	297	*
Approximately 3.35 miles upstream of confluence with Steep Bank Creek	0.15	*	*	268	*
Steep Bank Creek Approximately 2.80 miles upstream of confluence with Snake Slough	1.50	*	*	1,322	*

↑
**DATA REVISED BY LOMR
EFFECTIVE APRIL 2, 2010**

REVISED DATA ↓

Diversion Approximately 0.25 miles upstream of confluence with Aleorn Bayou	0.1	*	*	87	*
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**REVISED TO
REFLECT LOMR
EFFECTIVE: June 6, 2013**

*Data not computed

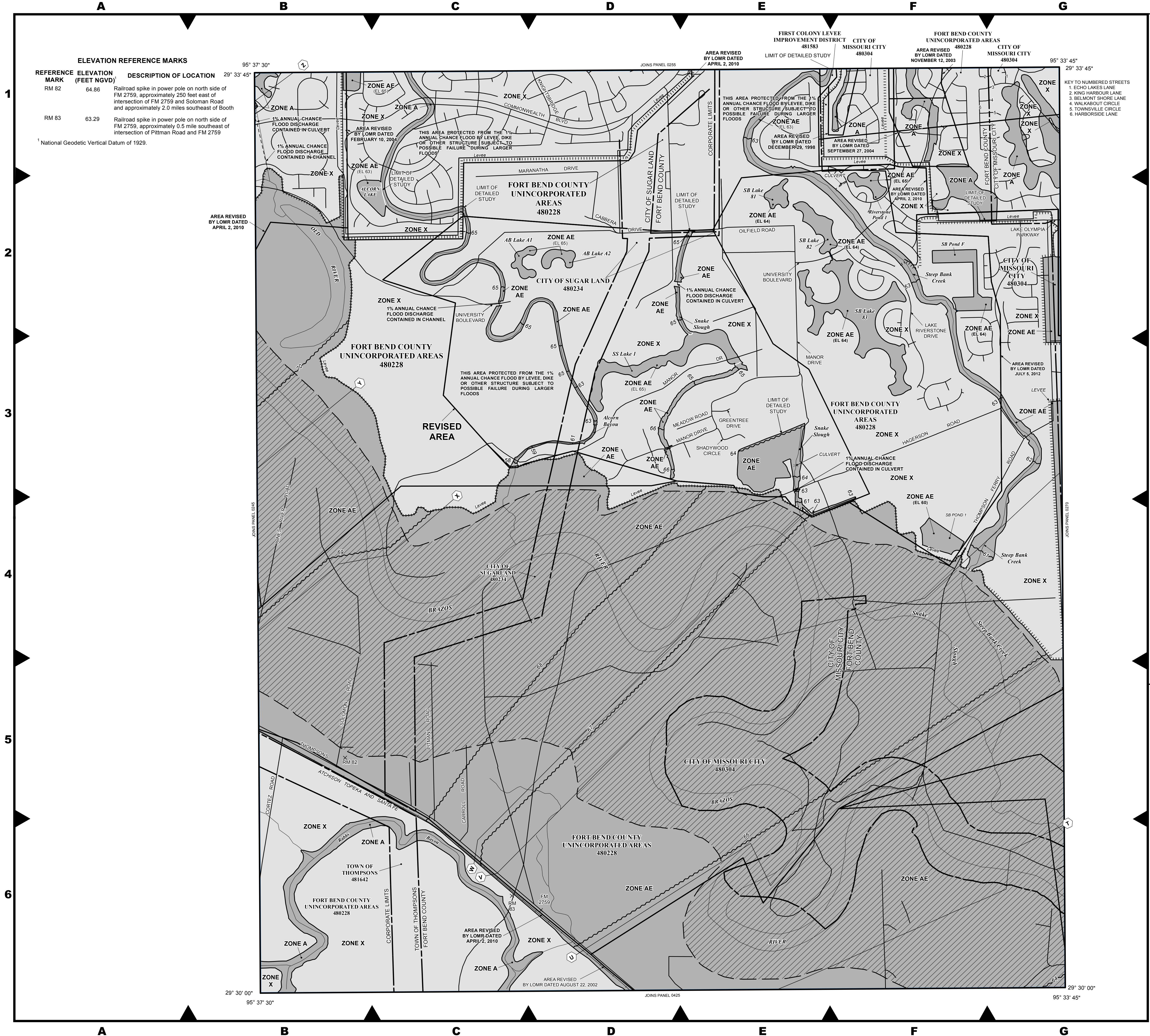
FLOODING SOURCE AND TRANSECT	FLOOD INSURANCE RATE MAP PANEL	STILLWATER ELEVATION (FEET NGVD)				ZONE	BASE FLOOD ELEVATION (FEET NGVD)
		10-YEAR	50-YEAR	100-YEAR	500-YEAR		
AB Lake A1	48157C0265 J	**	**	65.1	**	AE	65
AB Lake A2	48157C0265 J	**	**	65.1	**	AE	65
SS Lake 1	48157C0265 J	**	**	64.9	**	AE	65
				REVISSED TO REFLECT LOMR EFFECTIVE: June 6, 2013			

** Data not available

TABLE 5

FEDERAL EMERGENCY MANAGEMENT AGENCY
FORT BEND COUNTY, TX
AND INCORPORATED AREAS

SUMMARY OF STILLWATER ELEVATIONS



ELEVATION REFERENCE MARKS

REFERENCE MARK	ELEVATION (FEET NGVD)	DESCRIPTION OF LOCATION
RM 82	64.86	Railroad spike in power pole on north side of FM 2759, approximately 250 feet east of intersection of FM 2759 and Solomon Road and approximately 2.0 miles southeast of Booth
RM 83	63.29	Railroad spike in power pole on north side of FM 2759, approximately 0.5 mile southeast of intersection of Pittman Road and FM 2759

¹ National Geodetic Vertical Datum of 1929.

LEGEND

SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100-YEAR FLOOD

- ZONE A**: No base flood elevations determined.
- ZONE AE**: Base flood elevations determined. Flood depths of 1 to 3 feet (usually areas of ponding); base flood elevations determined.
- ZONE AH**: Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding; velocities also determined.
- ZONE AO**: To be protected from 100-year flood by a Federal flood protection system under construction; no base flood elevations determined.
- ZONE A99**: Coastal flood with velocity hazard (wave action); no base flood elevations determined.
- ZONE V**: Coastal flood with velocity hazard (wave action); no base flood elevations determined.
- ZONE VE**: Coastal flood with velocity hazard (wave action); no base flood elevations determined.

FLOODWAY AREAS IN ZONE AE

OTHER FLOOD AREAS

- ZONE X**: Areas of 500-year flood; areas of 100-year flood with average depths of less than 1 foot or with drainage areas less than 1 square mile, and areas protected by levees from 1% annual chance flood.

OTHER AREAS

- ZONE X**: Areas determined to be outside the 500-year flood-plan.
- ZONE D**: Areas in which flood hazards are undetermined.

UNDEVELOPED COASTAL BARRIERS

- Identified 1983
- Identified 1990
- Other Areas Protected Areas

KEY TO NUMBERED STREETS

- ECHO LAKES LANE
- KING HARBOUR LANE
- BELMONT SHORE LANE
- WALKABOUT CIRCLE
- TOWNSVILLE CIRCLE
- HARBORSIDE LANE

NOTES

This map is for use in administering the National Flood Insurance Program; it does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size, or all planimetric features outside Special Flood Hazard Areas. The community map repository should be consulted for possible updated flood hazard information prior to use of this map for property purchase or construction purposes.

Areas of special flood hazard (100-year flood) include Zones A, AE, A1-A30, AO, A99, V, VE, and V1-V30.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the Federal Emergency Management Agency.

Floodway widths in some areas may be too narrow to show to scale. Refer to Floodway Data Table where floodway width is shown at 1/25 inch.

Corporate limits shown are current as of the date of this map. The user should contact appropriate community officials to determine if corporate limits have changed subsequent to the issuance of this map.

This map incorporates approximate boundaries of Coastal Boundaries Resource System Units and / or Otherwise Protected Areas established under the Coastal Barrier Improvement Act of 1990 (PL 101-591).

For community map revision history prior to countywide mapping, see section 6.0 of the Flood Insurance Study Report.

For adjoining map panels and base map source see separately printed Map Index.

MAP REPOSITORY

Refer to Repository Listing on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP:

SEPTEMBER 30, 1992

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

Map revised January 3, 1997 to update corporate limits, to update map format, to update roads and road names, to incorporate previously issued letters of map revision, and to incorporate previously issued letters of map amendment.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at (800) 638-6620.

APPROXIMATE SCALE IN FEET

1,000 0 1,000 FEET

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

FORT BEND COUNTY, TEXAS AND INCORPORATED AREAS

PANEL 265 OF 550
(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
FIRST COLONY L.I.D.	481583	0265	J
FORT BEND COUNTY UNINCORPORATED AREAS	480228	0265	J
MISSOURI CITY, CITY OF	480304	0265	J
SUGAR LAND, CITY OF	480224	0265	J
THOMPSONS, TOWN OF	481642	0265	J

REVISED TO REFLECT LOMR EFFECTIVE: June 6, 2013

MAP NUMBER
48157C0265J

EFFECTIVE DATE:
JANUARY 3, 1997

Federal Emergency Management Agency